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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/14919

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C12N15/12, C12N15/09, C07K16/32, C07K16/18, G01N33/53

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C12N15/12, C12N15/09, C07K16/32, C07K16/18, G01N33/53

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
JSTPlus (STN), BIOSIS/WPI (DIALOG)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Akihiro ABE, "DNA o Mochiita Shuyo Tokuiteki Kogen ni Taisuru Men'eki Yudo B Saibosei Akusei Shuyo o Model ni", Sankyo Seimei Kagaku Kenkyu Shinko Zaidan Kenkyu Hokokushu (1998), Vol.11, pages 213 to 219	1-12
X Y	VARSHA PATKI et al., Evidence for B cell oligo-clonality in the blood and joints of patients with rheumatoid arthritis., Ann.N.Y.Acad.Sci. (1997), Vol.815, pages 472 to 474	1,3-6 2,7-12
Y	Howard Ratech, Rapid cloning of rearranged Immunoglobulin heavy chain genes from human B-cell Lines using anchored polymerase chain reaction., BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS (1992), Vol.182, No.3, pages 1260 to 1263	1-12

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
15 December, 2003 (15.12.03)

Date of mailing of the international search report
13 January, 2004 (13.01.04)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/14919

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 06-141884 A (Yoshihide HAGIWARA), 24 May, 1994 (24.05.94), (Family: none)	1-12
Y	Shingo ICHINOMIYA et al., "VII. Men'eki Saibo 2. Laser Microdissection o Riyo shita Men'eki Soshiki no Atarashii Kaisekiho", Annual Review Men'eki 2002(2001), pages 147 to 179	1-12
Y	Lin LUO et al., Gene expression profiles of laser-captured adjacent neuroal subtypes., Nature Medicine (1999), Vol.5, No.1, pages 117 to 122	1-12
Y	Tetsuhiko TACHIKAWA et al., "Laser Microdissection-ho no Gan Chiryo eno Oyo", Hematology & Oncology (2001), Vol.42, No.6, pages 565 to 571	1-12